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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,368	01/10/2002	Thomas E. Broome	1001.1388101	8240
28057 7950 G9132008 CROMPTON, SEAGER & TUFFE, LLC 1221 NICOLLET AVENUE SUITE 800 MINNEAPOLIS. MN 55403-2420			EXAMINER	
			EREZO, DARWIN P	
			ART UNIT	PAPER NUMBER
	-,		3773	
			MAIL DATE	DELIVERY MODE
			03/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/044,368 BROOME ET AL. Office Action Summary Examiner Art Unit Darwin P. Erezo 3773 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10 December 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 5-31.52.54-72 and 74-95 is/are pending in the application. 4a) Of the above claim(s) 5-31 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 52,54-72 and 74-95 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

| Attachment(s) | Attachment(s

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DETAILED ACTION

1. The amendment filed on 12/10/07 has been entered into the application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

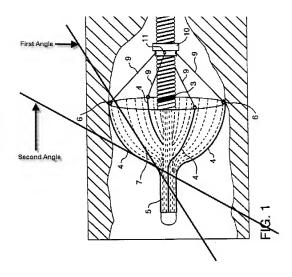
A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filled under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filled in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 52, 54, 55, 57-63, 70-72, 74, 75, 77-83 and 90-95 are rejected under 35
 U.S.C. 102(e) as being anticipated by US 6,652,554 to Wholey et al.

(claims 52, 72 and 92) As shown in the attached figure below, Wholey discloses a filter assembly comprising an elongate shaft 1, a filter 4 disposed and attached to a distal end of the shaft, the filter including a filtering region (the open portion) and an attachment region; wherein the filtering region includes a major opening defined adjacent the proximal end (see figure below) and is comprised of only a single layer of filter membrane that defines a filter basket and extending between the major opening and the distal end of the filtering region, the filtering region comprising apertures to allow the passage of blood through the filtering region; the filter membrane further comprising a first tapered portion defining a first angle that is lesser (or different) than a second angle defined by a second tapered portion (see figure below); and wherein the filter has an expanded (Fig. 1) and contracted shape (Fig. 4).

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(claims 54, 55, 74 and 75) The different portions of the filter can be sectioned off to be called the first or second portion, and each of these portion can be selected so that the first portion has a conical shape and the second portion has a frustoconical shape.

(claims 57-63, 77-83) The filter includes an expandable frame comprising Nitinol (col. 4, ll. 1-4); wherein the expandable frame includes a plurality of struts or ribs 4 that

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are adapted to bias the filter in an expanded position, wherein the free ends (proximal ends) of the ribs are attached to the opened mouth frame of the filter;

(claims 70, 71 and 93) The filter has attachment region comprising struts 9.
(claim 90) The second tapered portion extends proximally from the proximal end of the first tapered portion (see figure above).

(claims 94-95) The only single layer of filter membrane does not fold back on itself.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 56 and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wholey et al. as applied to the rejections to claims 52 and 72, and in view of US 5.814,064 to Daniel et al.

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Wholey discloses all the limitations of the claim except for the filter membrane comprising a polyurethane. Instead, the filter membrane of Wholey comprises plastic such as PTFE (col. 3, II. 5). However, Daniel teaches another filter assembly comprising an elongated shaft and a filter membrane (Fig. 18B), wherein filter membrane is made of polyurethane (col. 10, line 44-45). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use polyurethane in the filter membrane of Wholey because Daniel teaches that polyurethane can be used to form filter membranes. As such, using a specific type of material to form the filter membrane would be a mere design choice to one of ordinary skill in the art.

 Claims 64-69 and 84-89 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wholey et al., as applied to the rejections to claims 52 and 72, and in further view of US 6,605,102 to Mazzocchi et al.

Wholey discloses all the limitations of the claims except for the filter assembly comprising a retrieval sheath. However, the use of retrieval sheaths is well known in the art, as taught by Mazzocchi.

Mazzocchi discloses a filter assembly comprising an elongate shaft 265, a filter 270 disposed and attached to a distal end of the shaft, the filter including a filtering region and an attachment region (col. 19, line 66 - col. 20, line 8). The filtering region includes a major opening defined adjacent the proximal end (seen in Fig. 18B) and is comprised of a single layer of filter membrane that is folded onto itself to define a filter basked and extending between the major opening and the distal end of the filtering

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region, the filtering region comprising apertures to allow the passage of blood through the filtering region; the filter membrane further comprising a first tapered portion defining a first angle that is lesser (different) than a second angle defined by a second tapered portion (see attached in the Office Action dated 06/01/20061). The assembly further comprises retrieval sheath C, which is used to retrieve the filter. The filter is also viewed as having a wire that limits the tapering portion because the filter itself is comprised of a wire.

Therefore, one of ordinary skill in the art at the time the invention was made to modify the assembly of Wholey to include a retrieval sheath, as disclosed by Mazzocchi, because it allows the filter device to be removed from the vascular system safely. Furthermore, the modification to include a retrieval sheath will have the dimensions of the retrieval sheath match the dimension of the filter device.

Response to Arguments

- Applicant's arguments with respect to claims 52 and 72 have been considered but are moot in view of the new ground(s) of rejection.
- It is noted that this Office action is a Non-Final Office action because the
 examiner had inadvertently left the rejections for claims 94 and 95 in the previous Office
 action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darwin P. Erezo whose telephone number is (571)272-4695. The examiner can normally be reached on M-F (8:00-4:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jackie Ho can be reached on (571) 272-4696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Darwin P. Erezo/ Primary Examiner, Art Unit 3773